



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

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MEMORANDUM

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

DATE:

SUBJECT: Garlon: Supplementary Data on Dominant Lethal  
Interim Report of December 21, 1979.

FROM: Irving Mauer  
Toxicology Branch/HED (TS-769)

TO: William R. Schneider  
Toxicology Branch/HED (TS-769)

In my evaluation of cytogenetic testing of Garlon in mice (memo I. Mauer to E. Budd, May 7, 1980), it was recommended that the registrant complete the record for dominant lethal testing by submitting:

1. Historical data pertaining to reproductive parameters on the CF-1 mouse strain.
2. Litter data from the balance of animals previously assigned to the translocation portion of the assay.

These submitted data have been examined, and revealed:

1. An expected background rate of implantations (average 12.4; range, 10 to 14), litter resorptions (mean, 1.5, range 0.7 to 2.0), and resorptions per implantation (10.8%, range of 6% to 22%) among a total of 31 control groups of CF-1 females, representing 801 litters.
2. No difference from negative controls in average litter size on either day 1 or 21 days after birth among unexposed females mated to groups of 30 males ingesting 3, 15 or 70 mg/kg/day Garlon for 9 weeks, equivalent to 0.6%, 3% or 15% of the acute oral LD50 (by gavage). (The acute oral toxicity report accompanies the supplemental information evaluated herein.)

Conclusion:

The supplemental report on dominant lethal testing is acceptable, and support the earlier conclusion (May 7, 1980) in respect of this assay of Garlon.

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